JASIS
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

Author Index to Volume 45

Aigrain, Philippe
a model for the evaluation of expansion techniques in information retrieval systems, 225–234

Al-Kharashi, Ibrahim A.
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560

Anderson, James D.
standards for indexing: revising the American National Standard Guidelines Z39.4, 628–636

Armstrong, Marc P.
requirements for the development of GIS-based group decision-support systems, 669–677

Baker, Dale B.
[letter to the editor], 317–318

Ball, Marion J.
information services at the University of Maryland at Baltimore: giving the vision life, 326–330
perspectives on the redesign/reengineering of an information services division in a major health sciences institution—introduction and overview, 320–322

Barlow, Diane
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564

Barnett, George A.
the international telephone network and democratization, 411–421

Barry, Carol L.
user-defined relevance criteria: an exploratory study, 149–159

Basu, Aparna
[letter to the editor], 59–60

Beheshti, Jamshid
multimedia and comprehension: a cognitive study, 515–528

Benzel, R. N.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464

Berge, Zane L.
IPCT Journal: a case study of an electronic journal on the Internet, 771–776

Berliss, Jane
boon or bust? access to electronic publishing by individuals using adaptive computer technology, 753–759

Bishop, Ann P.
the national information infrastructure and electronic publishing: a reflective essay, 785–799

Bollmann-Sdorra, Peter
[letter to the editor], 540–541

Borgman, Christine L.
[book review], 117–118

Borsack, Julie
the effects of noisy data on text retrieval, 50–58

Braman, Sandra
the autopoietic state: communication and democratic potential in the net, 358–368

Breuleux, Alain
multimedia and comprehension: a cognitive study, 515–528

Brooks, Terrence A.
[book review], 800–801

Bruce, Harry W.
a cognitive view of the situational dynamism of user-centered relevance estimation, 142–148

Bryant, David
spatial mental models from descriptions, 656–668

Buckland, Michael
the relationship between recall and precision, 12–19

Burrell, Quentin L.
[letter to the editor], 59
a model for library book circulations incorporating loan periods, 101–116

Case, Donald O.
the social shaping of videotex: how information services for the public have evolved, 483–497

Clementini, Eliseo
object-oriented modeling of geographic data, 694–704

Cole, Charles
operationalizing the notion of information as a subjective construct, 465–476

Collins, Mauri
IPCT Journal: a case study of an electronic journal on the Internet, 771–776

Collins-Jarvis, Lori
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Condit, Allen
the effects of noisy data on text retrieval, 50–58

Corbin, John
[book review], 218–219

Cortez, Ed
[book review], 315–316

Couvreur, T. R.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464

Cox, Richard J.
[book review], 284–285

Cronin, Blaise
citation-based auditing of academic performance, 61–72
tiered citation and measures of document similarity, 537–538

Daroussin, J.
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717

Davis, Charles H.
in memoriam: Bernard M. Fry, 1915-1994 (editorial addendum), 547

Dervin, Brenda
information ↔ democracy: an examination of underlying assumptions, 369–385

Di Felice, Paolino
object-oriented modeling of geographic data, 694–704

Diodato, Virgil
user preferences for features in back of book indexes, 529–536

Doty, Philip
the national information infrastructure and electronic publishing: a reflective essay, 785–799

Douglas, Judith V.
perspectives on the redesign/reengineering of an information services division in a major health sciences institution—introduction and overview, 320–322

Eddy, William F.
an example of the estimation and display of a smoothly varying function of time and space—the incidence of the disease mumps, 686–693

Egghe, L.
special features of the author-publication relationship and a new explanation of Lotka's Law based on convolution theory, 422–427

El-Hadidy, Bahaa
the breakeven point for using CD-ROM *versus* online: a case study for database access in a developing country, 273–283

Erva, Srinivas
the effects of noisy data on text retrieval, 50–58

Evans, G. Edward
[book review], 723–724
Evens, Martha W.
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560

Fenton, Michael R.
a model for library book circulations incorporating loan periods, 101–116
Fidel, Raya
perspectives on indexing: introduction and overview, 570–571
user-centered indexing, 572–576
Franklin, Nancy
spatial mental models from descriptions, 656–668
Froehlich, Thomas J.
relevance reconsidered—towards an agenda for the 21st century: introduction to special topic issue on relevance research, 124–134

Gey, Fredric
the relationship between recall and precision, 12–19
Gluck, Myke
spatial information and information science: introduction to JASIS special topic issue on spatial information, 640–644
Gold, Jon
an electronic publishing model for academic publishers, 760–764

Harris, Donald E.
reassessing user needs, 331–334
Harrison, Teresa M.
Comserve: moving the communication discipline online, 765–770
Heinan, Mary Ellen
[book review], 539
Hersh, William
relevance and retrieval evaluation: perspectives from medicine, 201–206
Hill, Linda
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564
Hilton-Chalfen, Daniel
[book review], 565–566
Howard, Dara Lee
pertinence as reflected in personal constructs, 172–185

Jacobson, Thomas L.
the electronic publishing revolution is not "global," 745–752
Jamagne, M.
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717
Janes, Joseph W.
other people's judgments: a comparison of users' and others' judgments of document relevance, topicality, and utility, 160–171
Jasperse, Jaap A.
primary science on CD-ROM: the New Zealand experiment, 777–784

Kantor, Paul B.
[book review], 118–119
King, D.
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717
Koenig, Michael E. D.
[letter to the editor], 540
Kostoff, Ronald N.
federal research impact assessment: state-of-the-art, 428–440
Kraft, Donald H.
electronic submissions to *JASIS* are now acceptable (editorial), 725
in memoriam: Bernard M. Fry, 1915-1994 (editorial addendum), 547
special topics issues of *JASIS,* 123

Langenberg, Donald N.
information technology and the university: integration strategies for the 21st century, 323–325
Large, Andrew
multimedia and comprehension: a cognitive study, 515–528
Layne, Sara Shatford
some issues in the indexing of images, 583–588
Lee, D. L.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
Lievrouw, Leah A.
information resources and democracy: understanding the paradox, 350–357
Longueville, Véronique
a model for the evaluation of expansion techniques in information retrieval systems, 225–234
Lunin, Lois F.
perspectives on indexing: introduction and overview, 570–571
Lynch, Clifford A.
the integrity of digital information: mechanics and definitional issues, 737–744

Marchionini, Gary
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564
Martinez, Michael E.
access to information technologies among school-age children: implications for a democratic society, 395–400
Meadow, Charles T.
JASIS: a reflection ten years after (guest editorial), 545–546
Michel, Dee Andy
what is used during cognitive processing in information retrieval and library searching? eleven sources of search information, 498–514
Miller, S. F.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
Milstead, Jessica L.
needs for research in indexing, 577–582
Min, Zheng
MUCH electronic publishing environment: principles and practices, 300–309
Mockus, Audris
an example of the estimation and display of a smoothly varying function of time and space—the incidence of the disease mumps, 686–693
Mondschein, Lawrence G.
the role of spatial information systems in environmental emergency management, 678–685
Morris, Ruth C. T.
toward a user-centered information service, 20–30

Newhagen, John E.
media use and political efficacy: the suburbanization of race and class, 386–394

Ottaviani, J. S.
the fractal nature of relevance: a hypothesis, 263–272
Overfelt, Kara
citation-based auditing of academic performance, 61–72

Park, Taemin Kim
toward a theory of user-based relevance: a call for a new paradigm of inquiry, 135–141
Peek, Robin P.
perspectives on electronic publishing: introduction and overview, 727–729
where is publishing going? a perspective on change, 730–736
Persson, Olle
the intellectual base and research fronts of JASIS 1986-1990, 31–38
Peters, H. P. F.
on determinants of citation scores: a case study in chemical engineering, 39–49
Petroski, S. Paul
redeploying resources, 335–338
Plaunt, Christian
GIPSY: automated geographic indexing of text documents, 645–655

Qiu, Liwen
task-oriented access to data files: an evaluation, 251–262

Rada, Roy
MUCH electronic publishing environment: principles and practices, 300–309
Raghavan, Vijay V.
[letter to the editor], 540–541
Rayward, W. Boyd
visions of Xanadu: Paul Otlet (1868-1944) and hypertext, 235–250
Reese, Errol L.
information services at the University of Maryland at Baltimore: giving the vision life, 326–330
Renaud, André
multimedia and comprehension: a cognitive study, 515–528
Rogers, Everett M.
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Salton, Gerard
[letter to the editor], 318
Sappington, Thomas E.
realigning and reeducating staff, 339–341
Schauder, Don
electronic publishing of professional articles: attitudes of academics and implications for the scholarly communication industry, 73–100
Schmitz, Joseph
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410
Schuegraf, Ernst J.
an analysis of personal journal subscriptions of university faculty. Part II. arts and professional programs, 477–482
Seglen, Per O.
causal relationship between article citedness and journal impact, 1–11
Shepherd, Michael A.
task-oriented access to data files: an evaluation, 251–262
Shivaratri, N.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
Singhal, M.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
Sleeter, Ellen
[book review], 218
Soergel, Dagobert
indexing and retrieval performance: the logical evidence, 589–599
Spink, Amanda
[book review], 565
Stephen, Timothy
Comserve: moving the communication discipline online, 765–770
Su, Louise T.
the relevance of recall and precision in user evaluation, 207–217
Sun, Su-Lien
the international telephone network and democratization, 411–421
Sutton, Stuart A.
the role of attorney mental models of law in case relevance determinations: an exploratory analysis, 186–200
Svenonius, Elaine
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606

Taghva, Kazem
the effects of noisy data on text retrieval, 50–58
Taylor, Holly A.
spatial mental models from descriptions, 656–668
Taylor, Robert S.
[book review], 284
Templeton, Maxie
[letter to the editor], 567
Tenopir, Carol
[book review], 219–220
Tibbo, Helen R.
indexing for the humanities, 607–619
Tooey, M. J.
designing a new facility for information services, 342–344
Tversky, Barbara
spatial mental models from descriptions, 656–668

van Bommel, Martin F.
an analysis of personal journal subscriptions of university faculty. Part II. arts and professional programs, 477–482
van Raan, A. F. J.
on determinants of citation scores: a case study in chemical engineering, 39–49

Watters, Carolyn
task-oriented access to data files: an evaluation, 251–262
Weinberg, Bella Hass
[book review], 310–314, 718–723
[letter to the editor], 317
Weise, Frieda O.
designing a new facility for information services, 342–344
Wellisch, Hans H.
book and periodical indexing, 620–627
White, Herbert S.
[letter to the editor], 567
Wilson, Patrick
[book review], 220–221
Wong, W. Y. P.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
Woodruff, Allison Gyle
GIPSY: automated geographic indexing of text documents, 645–655

Yoon, Lanju Lee
the performance of cited references as an approach to information retrieval, 287–299

Zeitler, D. N.
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464

JASIS
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE

Subject Index to Volume 45

Academic Performance
citation-based auditing of academic performance, 61–72
[letter to the editor], 567

Academic Publishing. *See* **Scholarly Publishing**

Access to Information. *See* **Information Access**

Adaptive Technology
boon or bust? access to electronic publishing by individuals using adaptive computer technology, 753–759

African Americans
media use and political efficacy: the suburbanization of race and class, 386–394

Arabic Language
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560

Attorneys
the role of attorney mental models of law in case relevance determinations: an exploratory analysis, 186–200

Aural Information
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606

Authentication
the integrity of digital information: mechanics and definitional issues, 737–744

Authorship
citation-based auditing of academic performance, 61–72
special features of the author-publication relationship and a new explanation of Lotka's Law based on convolution theory, 422–427

Automatic Indexing
book and periodical indexing, 620–627
GIPSY: automated geographic indexing of text documents, 645–655
standards for indexing: revising the American National Standard Guidelines Z39.4, 628–636
user-centered indexing, 572–576

Bibliometrics. *See also* **Citation Analysis**
special features of the author-publication relationship and a new explanation of Lotka's Law based on convolution theory, 422–427

Biomedical Literature
causal relationship between article citedness and journal impact, 1–11

Book Circulation. *See* **Circulation**

Book Reviews
Access Versus Assets: A Comprehensive Guide to Resource Sharing for Academic Librarians (Barbra Buckner Higginbotham and Sally Bowdoin), 539
Adaptive Technologies for Learning and Work Environments (Joseph J. Lazzaro), 565–566
The Barefoot Expert: The Interface of Computerized Knowledge Systems and Indigenous Knowledge Systems (Doris M. Schoenhoff), 220–221
Challenges in Indexing Electronic Texts and Images (Raya Fidel, et al.), 718–723
File Management and Information Retrieval Systems: A Manual for Managers and Technicians (Suzanne L. Gill), 310–314
Information Management and Archival Data (Michael Cook), 284–285
Information Retrieval Today (F. Wilfrid Lancaster and Amy J. Warner), 800–801
Insider's Guide to Library Automation: Essays of Practical Experience (John V. Head and Gerard B. McCabe), 315–316
Managing the Economics of Owning and Contracting Out Information Services (Anne Woodsworth and James F. Williams, II), 218
Online Information Retrieval: An Introductory Manual to Principles and Practice (John Convey), 219–220
Online Retrieval: A Dialogue of Theory and Practice (Geraldene Walker and Joseph Janes), 565
Operations Research for Libraries and Information Agencies (Donald H. Kraft and Bert R. Royce), 118–119
Organizational Decision Making and Information (Mairead Browne), 284
Planning Second Generation Automated Library Systems (Edwin M. Cortez and Tom Smorch), 218–219
Strategic Management for Academic Libraries (Robert M. Hayes), 723–724
The Whole Internet User's Guide & Catalog (Ed Krol), 117–118

Bradford's Law
the elusive phenomenon of Bradford's Law [letter to the editor], 59–60

CD-ROM Databases
the breakeven point for using CD-ROM *versus* online: a case study for database access in a developing country, 273–283

CD-ROM Publishing. *See also* **Electronic Publishing**
primary science on CD-ROM: the New Zealand experiment, 777–784

Chaos Theory
the autopoietic state: communication and democratic potential in the net, 358–368
information ↔ democracy: an examination of underlying assumptions, 369–385

Chemical Engineering Literature
on determinants of citation scores: a case study in chemical engineering, 39–49

Children
access to information technologies among school-age children: implications for a democratic society, 395–400

Circulation
a model for library book circulations incorporating loan periods, 101–116

Citation Analysis. *See also* **Bibliometrics; Journal Analysis**
causal relationship between article citedness and journal impact, 1–11
citation-based auditing of academic performance, 61–72
[letter to the editor], 567
on determinants of citation scores: a case study in chemical engineering, 39–49
the intellectual base and research fronts of *JASIS* 1986–1990, 31–38
tiered citation and measures of document similarity, 537–538

Citation Indexing
[letter to the editor], 317
the performance of cited references as an approach to information retrieval, 287–299

Classification
visions of Xanadu: Paul Otlet (1868–1944) and hypertext, 235–250

Cognitive Processing
multimedia and comprehension: a cognitive study, 515–528
what is used during cognitive processing in information retrieval and library searching? eleven sources of search information, 498–514

Communication Institute for Online Scholarship (CIOS)
Comserve: moving the communication discipline online, 765–770

Communication Systems
the autopoietic state: communication and democratic potential in the net, 358–368
Comserve: moving the communication discipline online, 765–770
the electronic publishing revolution is not "global," 745–752
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564
information ↔ democracy: an examination of underlying assumptions, 369–385

Communication Systems *(Continued)*
the international telephone network and democratization, 411–421
media use and political efficacy: the suburbanization of race and class, 386–394
the national information infrastructure and electronic publishing: a reflective essay, 785–799
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410
the social shaping of videotex: how information services for the public have evolved, 483–497

Comprehension
multimedia and comprehension: a cognitive study, 515–528

Computer Networks. *See* **Communication Systems**

Computer Technology
access to information technologies among school-age children: implications for a democratic society, 395–400
boon or bust? access to electronic publishing by individuals using adaptive computer technology, 753–759
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Comserve
Comserve: moving the communication discipline online, 765–770

Convolution Theory
special features of the author-publication relationship and a new explanation of Lotka's Law based on convolution theory, 422–427

Copyright
an electronic publishing model for academic publishers, 760–764

Cost
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464

Cryptographic Signatures
the integrity of digital information: mechanics and definitional issues, 737–744

DalText System
task-oriented access to data files: an evaluation, 251–262

Decision Making
requirements for the development of GIS-based group decision-support systems, 669–677

Democracy
access to information technologies among school-age children: implications for a democratic society, 395–400
the autopoietic state: communication and democratic potential in the net, 358–368
information ↔ democracy: an examination of underlying assumptions, 369–385
information resources and democracy: understanding the paradox, 350–357
the international telephone network and democratization, 411–421

Democracy *(Continued)*
media use and political efficacy: the suburbanization of race and class, 386–394
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Developing Nations
the breakeven point for using CD-ROM *versus* online: a case study for database access in a developing country, 273–283
the electronic publishing revolution is not "global," 745–752

Digest Algorithms
the integrity of digital information: mechanics and definitional issues, 737–744

Disabled
boon or bust? access to electronic publishing by individuals using adaptive computer technology, 753–759

Document Digest Algorithms
the integrity of digital information: mechanics and definitional issues, 737–744

Document Type Definition (DTD)
an electronic publishing model for academic publishers, 760–764

Electronic Communications Networks. *See* **Communication Systems**

Electronic Publishing
boon or bust? access to electronic publishing by individuals using adaptive computer technology, 753–759
Comserve: moving the communication discipline online, 765–770
an electronic publishing model for academic publishers, 760–764
electronic publishing of professional articles: attitudes of academics and implications for the scholarly communication industry, 73–100
the electronic publishing revolution is not "global," 745–752
the integrity of digital information: mechanics and definitional issues, 737–744
IPCT Journal: a case study of an electronic journal on the Internet, 771–776
MUCH electronic publishing environment: principles and practices, 300–309
the national information infrastructure and electronic publishing: a reflective essay, 785–799
perspectives on electronic publishing: introduction and overview, 727–729
primary science on CD-ROM: the New Zealand experiment, 777–784
where is publishing going? a perspective on change, 730–736

Environmental Emergency Management
the role of spatial information systems in environmental emergency management, 678–685

European Communities Soil Map
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717

Expansion Systems for Information Retrieval
a model for the evaluation of expansion techniques in information retrieval systems, 225–234

Fractal Geometry
the fractal nature of relevance: a hypothesis, 263–272

Frequency Distribution
causal relationship between article citedness and journal impact, 1–11
citation-based auditing of academic performance, 61–72
the elusive phenomenon of Bradford's Law [letter to the editor], 59–60
the Kolmogorov-Smirnov test and rank-frequency distributions [letter to the editor], 59

Fry, Bernard M.
in memoriam: Bernard M. Fry, 1915–1994 (editorial addendum), 547

Geographic Data
object-oriented modeling of geographic data, 694–704
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717

Geographic Information Systems (GIS). *See also* **Spatial Information**
GIPSY: automated geographic indexing of text documents, 645–655
requirements for the development of GIS-based group decision-support systems, 669–677

Government
access to information technologies among school-age children: implications for a democratic society, 395–400
the autopoietic state: communication and democratic potential in the net, 358–368
federal research impact assessment: state-of-the-art, 428–440
information ↔ democracy: an examination of underlying assumptions, 369–385
information resources and democracy: understanding the paradox, 350–357
the international telephone network and democratization, 411–421
media use and political efficacy: the suburbanization of race and class, 386–394
the national information infrastructure and electronic publishing: a reflective essay, 785–799
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Homelessness
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Humanities
indexing for the humanities, 607–619

Hypertext
MUCH electronic publishing environment: principles and practices, 300–309
visions of Xanadu: Paul Otlet (1868–1944) and hypertext, 235–250

Images
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606
indexing for the humanities, 607–619
some issues in the indexing of images, 583–588

Indexes and Indexing
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606
book and periodical indexing, 620–627
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560
GIPSY: automated geographic indexing of text documents, 645–655
indexing and retrieval performance: the logical evidence, 589–599
indexing for the humanities, 607–619
needs for research in indexing, 577–582
perspectives on indexing: introduction and overview, 570–571
some issues in the indexing of images, 583–588
standards for indexing: revising the American National Standard Guidelines Z39.4, 628–636
user preferences for features in back of book indexes, 529–536
user-centered indexing, 572–576

Information
operationalizing the notion of information as a subjective construct, 465–476

Information Access. ***See also*** **Information Seeking Behavior**
access to information technologies among school-age children: implications for a democratic society, 395–400
the autopoietic state: communication and democratic potential in the net, 358–368
the electronic publishing revolution is not "global," 745–752
information ↔ democracy: an examination of underlying assumptions, 369–385
information resources and democracy: understanding the paradox, 350–357
the integrity of digital information: mechanics and definitional issues, 737–744
media use and political efficacy: the suburbanization of race and class, 386–394
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410
the social shaping of videotex: how information services for the public have evolved, 483–497
where is publishing going? a perspective on change, 730–736

Information Integrity
the integrity of digital information: mechanics and definitional issues, 737–744
IPCT Journal: a case study of an electronic journal on the Internet, 771–776

Information Retrieval. ***See also*** **Text Storage and Retrieval Systems**
the effects of noisy data on text retrieval, 50–58

Information Retrieval *(Continued)*
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564
indexing and retrieval performance: the logical evidence, 589–599
the performance of cited references as an approach to information retrieval, 287–299
what is used during cognitive processing in information retrieval and library searching? eleven sources of search information, 498–514

Information Science
[need for theoretical studies] (letter to the editor), 567
visions of Xanadu: Paul Otlet (1868–1944) and hypertext, 235–250

Information Science Literature
citation-based auditing of academic performance, 61–72

Information Storage and Retrieval Systems. ***See also*** **Text Storage and Retrieval Systems**
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560
the fractal nature of relevance: a hypothesis, 263–272
a model for the evaluation of expansion techniques in information retrieval systems, 225–234
task-oriented access to data files: an evaluation, 251–262

Information Systems, Integrated. ***See*** **Integrated Information Systems**

Information-Seeking Behavior
toward a theory of user-based relevance: a call for a new paradigm of inquiry, 135–141
toward a user-centered information service, 20–30

Integrated Information Systems
designing a new facility for information services, 342–344
information services at the University of Maryland at Baltimore: giving the vision life, 326–330
information technology and the university: integration strategies for the 21st century, 323–325
perspectives on the redesign/reengineering of an information services division in a major health sciences institution—introduction and overview, 320–322
realigning and reeducating staff, 339–341
reassessing user needs, 331–334
redeploying resources, 335–338

Integrity of Information
the integrity of digital information: mechanics and definitional issues, 737–744

Intellectual Property. ***See*** **Copyright**

Internet. ***See also*** **Communication Systems; Electronic Publishing**
IPCT Journal: a case study of an electronic journal on the Internet, 771–776

Interpersonal Computing and Technology Journal (IPCT-J)
IPCT Journal: a case study of an electronic journal on the Internet, 771–776

Journal Analysis. ***See also*** **Citation Analysis**
an analysis of personal journal subscriptions of university faculty. Part II. arts and professional programs, 477–482

Journal of the American Society for Information Science (JASIS)
electronic submissions to *JASIS* are now acceptable (editorial), 725
the intellectual base and research fronts of *JASIS* 1986–1990, 31–38
JASIS: a reflection ten years after (guest editorial), 545–546
special topics issues of *JASIS*, 123

Journal Productivity Distribution
causal relationship between article citedness and journal impact, 1–11

Journal Publishing. ***See also*** **Electronic Publishing**
electronic publishing of professional articles: attitudes of academics and implications for the scholarly communication industry, 73–100
IPCT Journal: a case study of an electronic journal on the Internet, 771–776
primary science on CD-ROM: the New Zealand experiment, 777–784

Knowledge Structure
operationalizing the notion of information as a subjective construct, 465–476

Kolmogorov-Smirnov Test
the Kolmogorov-Smirnov test and rank-frequency distributions [letter to the editor], 59

Legal Literature
the role of attorney mental models of law in case relevance determinations: an exploratory analysis, 186–200

Libraries. ***See also*** **Integrated Information Systems**
a model for library book circulations incorporating loan periods, 101–116
toward a user-centered information service, 20–30

Library Collections
an analysis of personal journal subscriptions of university faculty. Part II. arts and professional programs, 477–482

Lotka's Law
special features of the author-publication relationship and a new explanation of Lotka's Law based on convolution theory, 422–427

Maps. ***See also*** **Spatial Information**
an example of the estimation and display of a smoothly varying function of time and space—the incidence of the disease mumps, 686–693
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717

Media
media use and political efficacy: the suburbanization of race and class, 386–394

Medical Literature
relevance and retrieval evaluation: perspectives from medicine, 201–206

Micro-AIRS System
comparing words, stems, and roots as index terms in an Arabic information retrieval system, 548–560

Mikhailov, A. I.
A. I. Mikhailov—a response [letter to the editor], 540
on the existence of Mikhailov [letter to the editor], 317–318

Models and Modeling
object-oriented modeling of geographic data, 694–704
spatial mental models from descriptions, 656–668

MUCH Electronic Publishing Environment
MUCH electronic publishing environment: principles and practices, 300–309

Multimedia
indexing for the humanities, 607–619
multimedia and comprehension: a cognitive study, 515–528

Mumps (Disease)
an example of the estimation and display of a smoothly varying function of time and space—the incidence of the disease mumps, 686–693

National Information Infrastructure (NII)
the national information infrastructure and electronic publishing: a reflective essay, 785–799

National Research and Education Network (NREN)
the national information infrastructure and electronic publishing: a reflective essay, 785–799

Networked Systems. ***See*** **Communication Systems; Wide Area Information Servers (WAIS)**

New Zealand Journal of Marine and Freshwater Research
primary science on CD-ROM: the New Zealand experiment, 777–784

Newspapers
media use and political efficacy: the suburbanization of race and class, 386–394

Nonbook Materials
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606
indexing for the humanities, 607–619

Object Oriented Modeling
object-oriented modeling of geographic data, 694–704

Objects, Digital
the integrity of digital information: mechanics and definitional issues, 737–744

Online Databases
the breakeven point for using CD-ROM *versus* online: a case study for database access in a developing country, 273–283

Optical Character Recognition
the effects of noisy data on text retrieval, 50–58

Otlet, Paul
visions of Xanadu: Paul Otlet (1868–1944) and hypertext, 235–250

PEN Project
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Periodicals. ***See*** **Journal Publishing**

Poisson Model
a model for library book circulations incorporating loan periods, 101–116

Politics. ***See*** **Government**

Precision
the relationship between recall and precision, 12–19
the relevance of recall and precision in user evaluation, 207–217

Publishing, Electronic. ***See*** **Electronic Publishing**

Race
access to information technologies among school-age children: implications for a democratic society, 395–400
media use and political efficacy: the suburbanization of race and class, 386–394

Radio
media use and political efficacy: the suburbanization of race and class, 386–394

Recall
the relationship between recall and precision, 12–19
the relevance of recall and precision in user evaluation, 207–217

Relevance
a cognitive view of the situational dynamism of user-centered relevance estimation, 142–148
the fractal nature of relevance: a hypothesis, 263–272
other people's judgments: a comparison of users' and others' judgments of document relevance, topicality, and utility, 160–171
the performance of cited references as an approach to information retrieval, 287–299
pertinence as reflected in personal constructs, 172–185
relevance and retrieval evaluation: perspectives from medicine, 201–206
the relevance of recall and precision in user evaluation, 207–217
relevance reconsidered—towards an agenda for the 21st century: introduction to special topic issue on relevance research, 124–134
the role of attorney mental models of law in case relevance determinations: an exploratory analysis, 186–200
toward a theory of user-based relevance: a call for a new paradigm of inquiry, 135–141
user-defined relevance criteria: an exploratory study, 149–159

Research and Development
federal research impact assessment: state-of-the-art, 428–440

Researchers
electronic publishing of professional articles: attitudes of academics and implications for the scholarly communication industry, 73–100

Retrieval. ***See*** **Information Retrieval**

Scanning Technology
the effects of noisy data on text retrieval, 50–58

Scholarly Publishing. ***See also*** **Electronic Publishing**
Comserve: moving the communication discipline online, 765–770
an electronic publishing model for academic publishers, 760–764
electronic publishing of professional articles: attitudes of academics and implications for the scholarly communication industry, 73–100
IPCT Journal: a case study of an electronic journal on the Internet, 771–776
primary science on CD-ROM: the New Zealand experiment, 777–784

Scientific Literature
causal relationship between article citedness and journal impact, 1–11
on determinants of citation scores: a case study in chemical engineering, 39–49

Searching. ***See*** **Information Retrieval**

SGML. ***See*** **Standard Generalized Markup Language (SGML)**

Social Systems
access to information technologies among school-age children: implications for a democratic society, 395–400
the autopoietic state: communication and democratic potential in the net, 358–368
information ↔ democracy: an examination of underlying assumptions, 369–385
information resources and democracy: understanding the paradox, 350–357
media use and political efficacy: the suburbanization of race and class, 386–394
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410

Soil Science
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717

Spatial Information
an example of the estimation and display of a smoothly varying function of time and space—the incidence of the disease mumps, 686–693
GIPSY: automated geographic indexing of text documents, 645–655
proposal for a spatial organization model in soil science (the example of the European Communities Soil Map), 705–717
requirements for the development of GIS-based group decision-support systems, 669–677

Spatial Information *(Continued)*
the role of spatial information systems in environmental emergency management, 678–685
spatial information and information science: introduction to *JASIS* special topic issue on spatial information, 640–644
spatial mental models from descriptions, 656–668

Standard Generalized Markup Language (SGML)
an electronic publishing model for academic publishers, 760–764

Standards
standards for indexing: revising the American National Standard Guidelines Z39.4, 628–636

Telephone Systems. *See* **Communication Systems**

Television
media use and political efficacy: the suburbanization of race and class, 386–394

Text Storage and Retrieval Systems. *See also* **Information Storage and Retrieval Systems**
an analysis of performance and cost factors in searching large text databases using parallel search systems, 443–464
the effects of noisy data on text retrieval, 50–58
task-oriented access to data files: an evaluation, 251–262

Third World Countries. *See* **Developing Nations**

Universities
information technology and the university: integration strategies for the 21st century, 323–325

University of Maryland, Baltimore
designing a new facility for information services, 342–344
information services at the University of Maryland at Baltimore: giving the vision life, 326–330
information technology and the university: integration strategies for the 21st century, 323–325
perspectives on the redesign/reengineering of an information services division in a major health sciences institution—introduction and overview, 320–322
realigning and reeducating staff, 339–341
reassessing user needs, 331–334
redeploying resources, 335–338

User Studies
operationalizing the notion of information as a subjective construct, 465–476

Users
a cognitive view of the situational dynamism of user-centered relevance estimation, 142–148
other people's judgments: a comparison of users' and others' judgments of document relevance, topicality, and utility, 160–171
pertinence as reflected in personal constructs, 172–185

Users *(Continued)*
reassessing user needs, 331–334
the relevance of recall and precision in user evaluation, 207–217
toward a theory of user-based relevance: a call for a new paradigm of inquiry, 135–141
toward a user-centered information service, 20–30
user-defined relevance criteria: an exploratory study, 149–159

Vector Space Model
the vector processing model [letter to the editor], 318
vector processing model [letter to the editor], 540–541

Videotex
the social shaping of videotex: how information services for the public have evolved, 483–497

Visual Information. *See also* **Images**
access to nonbook materials: the limits of subject indexing for visual and aural languages, 600–606

Wide Area Information Servers (WAIS)
extending retrieval strategies to networked environments: old ways, new ways, and a critical look at WAIS, 561–564

Women
the PEN project in Santa Monica: interactive communication, equality and political action, 401–410